

ABSTRACT

A production apparatus 1A includes: a treatment chamber 3, containing a to-be-treated liquid 2, made up of water 4, which is a solvent, and raw material particles 5 of a substance; a laser light source 10, illuminating laser light for microparticulation onto the to-be-treated liquid 2; an ultrasonic transducer 20, irradiating ultrasonic waves for preventing aggregation of microparticles; and a controlling device 15, controlling the laser light illumination by the laser light source 10 and the ultrasonic wave irradiation by the ultrasonic transducer 20. A vibration amplitude of the treatment chamber 3 is monitored by means of a microphone 30 and a vibration amplitude measuring device 35 to set the frequency of the ultrasonic waves to a resonance vibration frequency. A microparticle production method and production apparatus that enable substances to be microparticulated efficiently by photo-pulverization, and microparticles are thereby realized.